

In the Claims:

Please amend the claims as follows:

1. (currently amended) A device for motor vehicles having a support structure adapted to be mounted in the vehicle (1) and a steering wheel (21), which is rotatably connected to the support structure, ~~wherein the device includes~~ comprising:

a control unit (31),

a sensor device (32), which is connected to the control unit (31), wherein the sensor device is adapted to sense vibrations in the steering wheel and to provide a sensor signal related to the sensed vibrations, and

an actuator device (34), which is connected to the control unit (31) and adapted to influence the vibrations in the vehicle (1),

~~characterised in that~~ wherein the control unit (31) is adapted to control the actuator device (34), with regard to the sensor signal, to act on the vehicle (1) in such a way that a desired vibration character in the steering wheel (21) is obtained.

2. (currently amended) A The device according to claim 1, ~~characterised in that the device includes~~ further comprising:

a reference sensor (33) which is connected to the control unit (31) and adapted to sense vibrations outside the support structure for providing a reference signal to the control unit (31).

3. (currently amended) A The device according to ~~anyone of claims 1 and 2,~~

~~characterised in that~~ claim 1, wherein the reference sensor (33) includes a first reference sensor element (43) arranged to sense engine-excited vibrations and a second reference sensor element (43) arranged to sense road-excited vibrations.

4. (currently amended) A The device according to ~~anyone of claims 1 to 3, characterised in that~~ claim 1, wherein the sensor device (32) includes at least one sensor element (42) adapted to be mounted on the steering wheel (21).

5. (currently amended) A The device according to claim 4, ~~characterised in that~~ wherein the sensor device (32) includes at least a further sensor element (42) adapted to be mounted on the support structure.

6. (currently amended) A The device according to ~~anyone of the preceding claim, characterised in that~~ claim 1, wherein the actuator device (34) includes at least one actuating element (44) adapted to be mounted and act on the support structure.

7. (currently amended) A The device according to claim 6, ~~characterised in that~~ wherein the support structure includes a support beam (20) extending in an axial direction (A) transversally to a longitudinal driving direction (P) of the vehicle (1), wherein the actuator device (34) includes at least one actuating element (44) adapted to be mounted and act on the support beam (20).

8. (currently amended) A The device according to ~~claims 4 and 7 characterised in that~~

claim 4, wherein said further sensor element (42) is adapted to be mounted on the support beam (20).

9. (currently amended) A The device according to ~~anyone of claims 7 and 8,~~  
~~characterised in that~~ claim 7, wherein the support beam (20) has a periphery, wherein the  
actuator device (34) includes at least two actuating elements (44) which are adapted to be  
mounted around the periphery with an angle distance between each other.

10. (currently amended) A The device according to claim 9, ~~characterised in that~~  
wherein the actuating elements (44) are uniformly distributed around the periphery.

11. (currently amended) A The device according to ~~anyone of claims 9 and 10,~~  
~~characterised in that~~ claim 9, wherein the actuating elements (44) are provided at substantially  
the same axial position.

12. (currently amended) A The device according to ~~anyone of claims 7 to 11,~~  
~~characterised in that~~ claim 7, wherein the actuator device (34) is adapted to provide a bending  
movement of the support beam (20).

13. (currently amended) A The device according to ~~anyone of the preceding claims,~~  
~~characterised in that~~ claim 1, wherein the steering wheel (21) is connected to a steering column  
(22), wherein the actuator device (34) includes at least one actuating element (44) adapted to be  
mounted and act on the steering column (22).

14. (currently amended) A The device according to claim 13, ~~characterised in that~~  
wherein the actuator device (34) is adapted to provide a bending movement of the steering wheel  
(22).

15. (currently amended) A The device according to ~~anyone of the preceding claims,~~  
~~characterised in that~~ claim 1, wherein the control unit (31) includes an adaptive filter (51) which  
is adapted to generate an actuating signal supplied to the actuator device (34) for said influence  
on the vibrations in the vehicle (1).

16. (currently amended) A The device according to ~~claims 2 and 15,~~ ~~characterised in~~  
~~that~~ claim 2, wherein the reference sensor (33) is connected to the adaptive filter (51) and  
arranged to supply the reference signal to the adaptive filter (51), wherein the reference signal  
forms the basis for the actuating signal.

17. (currently amended) A The device according to ~~anyone of the claims 15 and 16,~~  
~~characterised in that~~ claim 1, wherein the sensor device (32) is arranged to supply the sensor  
signal to the adaptive filter (51) for updating the adaptive filter.

18. (currently amended) A The device according to ~~anyone of claims 15 to 17,~~  
~~characterised in that~~ claim 15, wherein the control unit (31) includes a prefilter (53), which is  
connected to the reference sensor (33) and arranged to provide a filtered reference signal.

19. (currently amended) A The device according to ~~anyone of claims 15 to 18,~~  
~~characterised in that claim 15, wherein~~ the control unit (31) includes a control algorithm (54),  
which is located between the sensor device (32) and the adapted filter (51) and arranged to filter  
the sensor signal supplied to the adaptive filter (51).

20. (currently amended) A The device according to ~~claims 18 and 19, characterised in~~  
~~that claim 18, wherein~~ the prefilter (53) is connected to this control algorithm (54) for the supply  
of the filtered reference signal to the control algorithm.

21. (currently amended) A device for motor vehicles, ~~including~~ comprising:  
a support structure adapted to be mounted in the vehicle,  
a steering wheel (21) rotatably connected to the support structure,  
a control unit (31),  
a sensor device (32), which is connected to the control unit (31), wherein the sensor  
device is adapted to sense vibrations in the steering wheel and to provide a sensor signal related  
to the sensed vibrations, and

an actuator device (34), which is connected to the control unit (31) and adapted to  
influence vibrations in the vehicle (1),

~~characterised in that wherein~~ the control unit (31) is adapted to control the actuator device  
(32), with regard to the sensor signal, to act on the vehicle (1) in such a way that a desired  
vibration character in the steering wheel (21) is obtained.

22. (currently amended) ~~Motor~~ A motor vehicle, comprising: including

a support structure mounted in the vehicle (1),

a steering wheel (21), which is rotatably connected to the support structure, and

a device, wherein the device includes

- a control unit (31),
- a sensor device (32), which is connected to the control unit (31), wherein the sensor device (32) is adapted to sense vibrations in the steering wheel and to provide a sensor signal related to the sensed vibrations, and
- an actuator device (34), which is connected to the control unit (31) and adapted to influence vibrations in the vehicle (1),

~~characterised in that~~ wherein the control unit (31) is adapted to control the actuator device (34), with regard to the sensor signal, to act on the vehicle (1) in such a way that a desired vibration character in the steering wheel (21) is obtained.